EX

Notice of Allowability	Application No.	Applicant(s)		
	. 10/766,914	KATO ET AL.	KATO ET AL.	
	Examiner	Art Unit		
	Elias B. Hiruy	2837		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic GHTS. This application is subj	s application. If not inclu- ation will be mailed in du	ded e course. <b>THIS</b>	
1. This communication is responsive to <u>08/04/2005</u> .				
2. The allowed claim(s) is/are 1-9,11 and 14-22.			•	
<ol> <li>Acknowledgment is made of a claim for foreign priority una)</li></ol>	e been received.  been received in Application Notes  cuments have been received in  of this communication to file a recent of this application.	lo this national stage applic eply complying with the re	equirements	
4. [] A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF	
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li></ol>	son's Patent Drawing Review ( for s Amendment / Comment or in .84(c)) should be written on the double he header according to 37 CFR 1 sit of BIOLOGICAL MATERI	the Office action of lrawings in the front (not the distribution). .121(d). AL must be submitted.		
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	nal Patent Application (P	TO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Sumr	i. ☐ Interview Summary (PTO-413), Paper No./Mail Date		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		7. Examiner's Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta	tement of Reasons for A	wance	
	Ç	David Martin Supervisory Patent S	YABBINED	
		TECHNOLOGY CENTER		

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) Application/Control Number: 10/766,914

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### **DETAILED ACTION**

# Response to Amendment

1. Applicant's amendment and argument filed on 08/04/05 are received and entered into record.

- 2. The objection of the drawings is withdrawn per the remark of the applicant.
- 3. The claim rejection regarding of claim 1, 3, 4, and 5 under 35 U.S.C. §102 (b) is withdrawn as applicant amendment has overcome the rejection set-forth in the earlier office action.
- 4. The claim rejections of claims 2, 6, and 7 are withdrawn as the claims depend directly or indirectly on the independent claim 1 and since claim 1 is amended to overcome the claim rejection set-forth in the earlier office action.
- 5. Claim rejections of claims 10, 12, and 13 are withdrawn as the claims are cancelled by the amendment.

#### Allowable Subject Matter

- 6. Claims are 1-9, 11, and 14-22 allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter:
  - Yamane (US 5,748,206) shows a printer that teaches about a method of controlling the speed of the carriage. The method involves measuring the speed of the carriage in the first cycle and adjusting the PWM in the next cycle.
  - Igarashi (US 2003/0043228) shows a carriage motor control in a printer.
     The disclosure teaches how the speed differential could be calculated and

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is supplied to different control parts to efficiently control the carriage motor.

Regarding claim 1, however, none of the prior arts alone or in combination showed or taught the specific method/system that are found in independent claim 1. The primary reason for allowance is the constant speed control method with the following steps: the control device controls operation of the carriage using a first set of the

plurality of sets of parameters and detects a first behavior of the carriage in a

constant speed area,

after controlling the operation of the carriage using the first set of the plurality of sets of parameters, the control device controls operation of the carriage using a second set of the plurality of sets of parameters and detects a second behavior of the carriage in the constant speed area, and

after controlling the operation of the carriage using at least the first set and the second set of the plurality of sets and the second set of the plurality of sets of parameters, the control device selects one of the plurality of sets of parameters based on the detected first behavior and the detected second behavior.

Regarding claim 15 and 20, the following steps are the reason for allowance of the claims:

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Executing a plurality of driving operations of the carriage using different ones of the plurality of sets of parameters for each of the plurality of driving operations; detecting a plurality of behaviors of the carriage in a constant speed area during each of the plurality of driving operations;

selecting one of the plurality of sets of parameters based on the plurality of detected behaviors corresponding to at least two of the plurality of driving operations; and

controlling the motor for driving the carriage based on the selected one of the plurality of sets of parameters.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Remarks

1. Nineteen claims are allowed.

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias B. Hiruy whose telephone number is 571-272-6105. The examiner can normally be reached on 7:00AM - 4:30PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2107. The fax phone number for the organization where this application or proceeding is assigned is

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703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBB) at 866-217-9197 (toll-free).

ΕH

10/17/05